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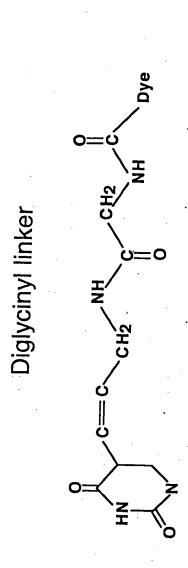
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Tetraglycinyl linker

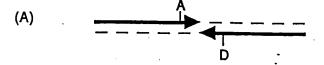
$$C = C$$
 $C + C$
 $C + C$

Figure 1

$$NH_2$$
 NH_2
 NH_2
 NH_2
 NH_3
 NH_4
 NH_5
 NH_6
 NH_7
 NH_8
 NH_8
 NH_8
 NH_8
 NH_8
 NH_9
 NH_9

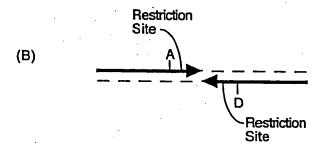
meta-EthD

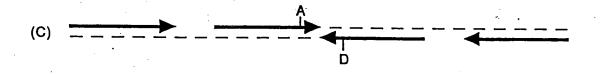
Figure 2



A = Energy Acceptor

D = Energy Donor





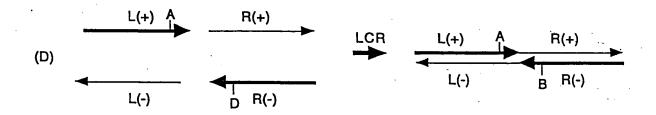
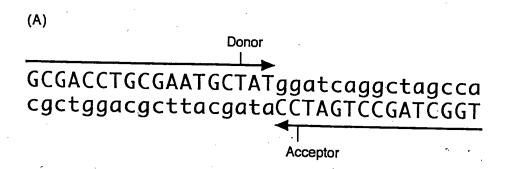


Figure 3

Target Sequence

——GCGACCTGCGAATGCTATGGATCAGGCTAGCCA———CGCTGGACGCTTACGATACCTAGTCCGATCGGT——



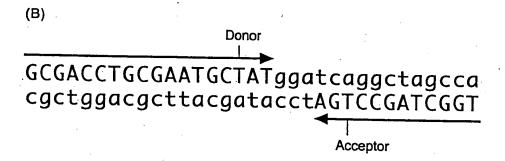


Figure 4

(A) PCR

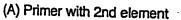
(B) SDA

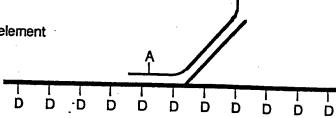
(C) GAP-LCR

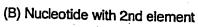
$$\begin{array}{c} A \\ \hline \\ D \\ A \end{array}$$

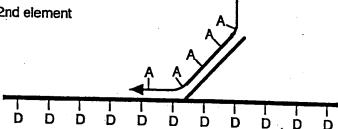
A = Energy Acceptor

Figure 5 D = Energy Donor

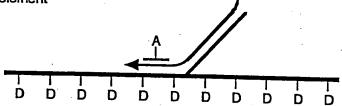








(B) Probe with 2nd element



(B) Intercalators with 2nd element

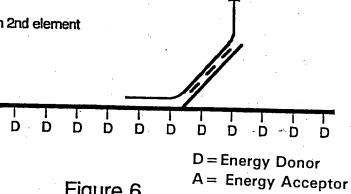


Figure 6

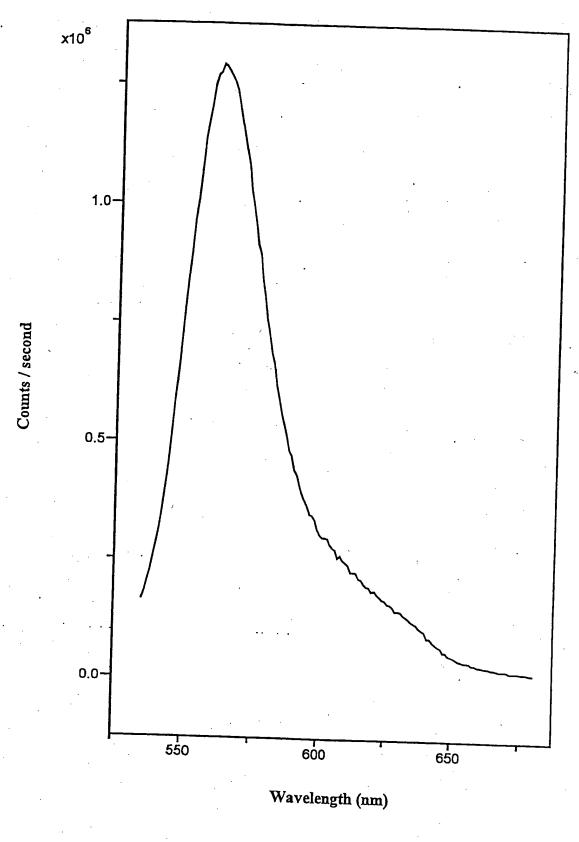


Figure 7

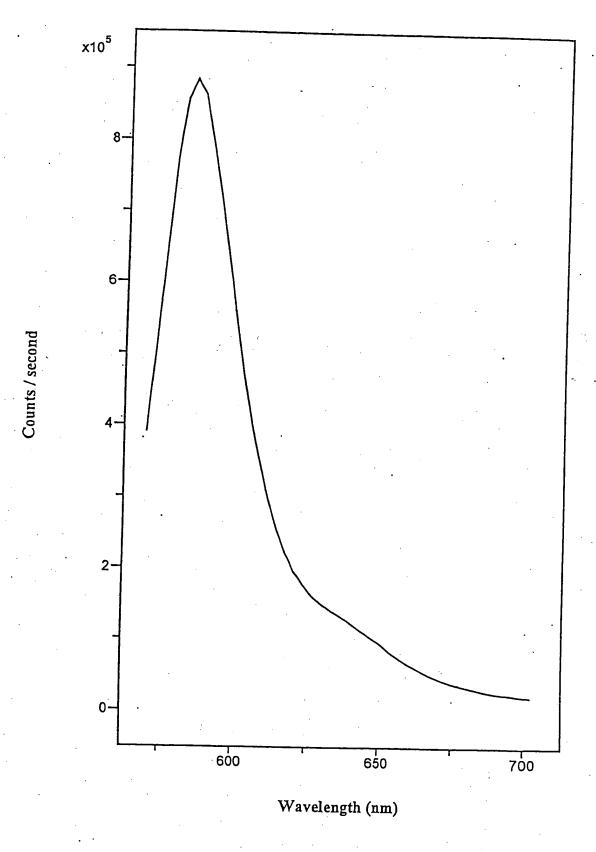
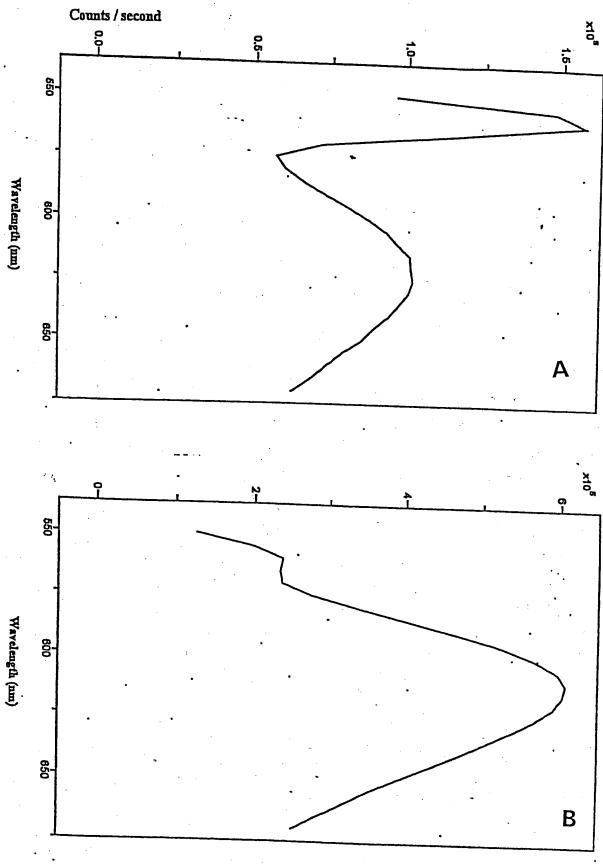


Figure 8

Figure 9



Illumination at 472 nM Figure 10

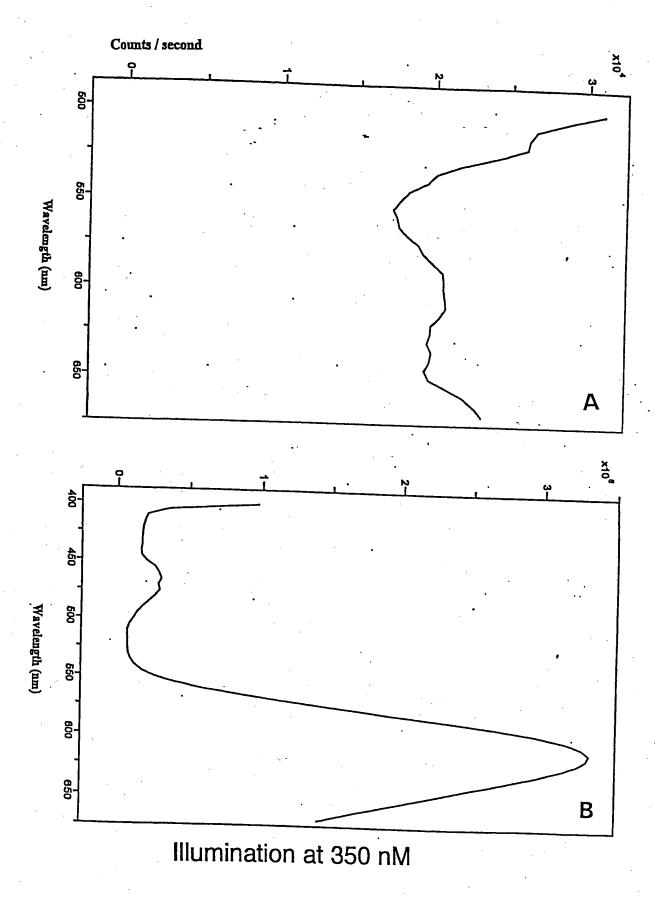


Figure 11

HIV Anti-sense Amplicon

Forward Primer

catgatccgg atgggaggtg

Hybridization Probe

taatggtg agtatccctg cctaactct

ggatgtgc ggattgagat aagtgatagg gataatggtg agtatccctg cctaactcta ttcactatcc tcatagggac ctattaccac catgatccgg atgggaggtg ggtctgaaac ccagactttg taccctccac gtactaggcc

agat aagtgatagg cctacacg Reverse Primer

Figure 12

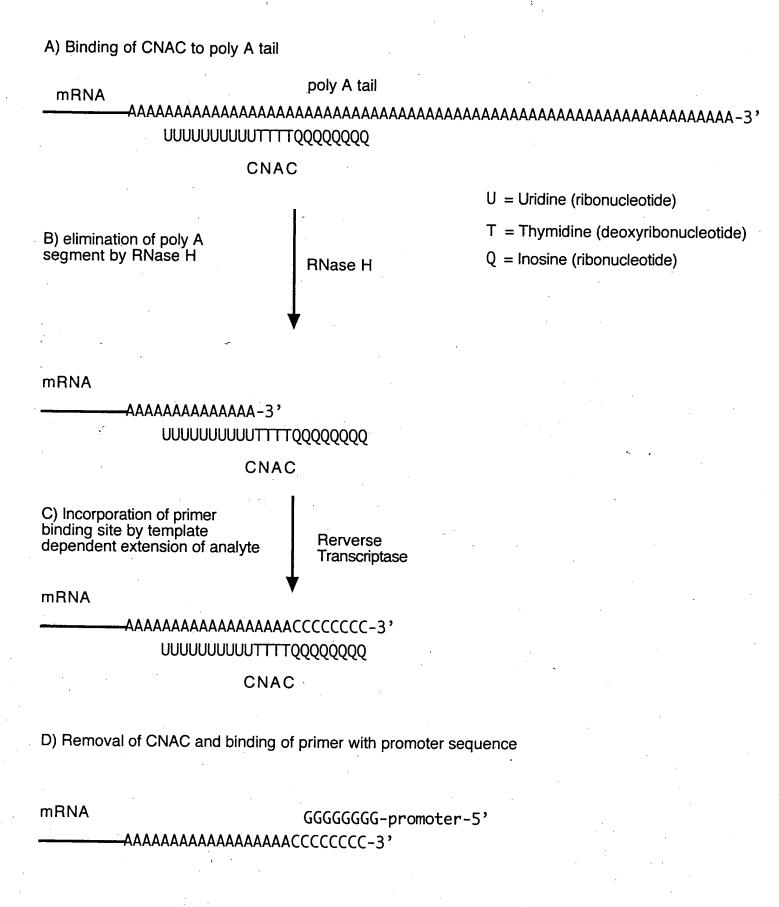


Figure 13

Figure 15